

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449				<i>Complete If Known</i>	
				Application Number	10/722,051
				Filing Date	November 26, 2003
				First Named Inventor	Ludwig et al.
				Art Unit	2153
				Examiner Name	Strange, Aaron
Sheet	1	of	4	Attorney Docket Number	63330-5008-US

U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date if Appropriate
		Number - Kind Code <sup>1</sup>					
		3,721,777	03-20-1973	Thomas			
		3,922,488	11-25-1975	Gabr			
		4,430,526	02-07-1984	Brown et al.			
		4,500,960	02-19-1985	Babecki et al.			
		4,786,741	11-22-1988	Sachs			
		4,800,344	01-24-1989	Graham			
		4,849,811	07-18-1989	Kleinerman			
		4,885,747	12-05-1989	Foglia			
		4,890,320	12-26-1989	Monslow et al.			
		4,893,326	01-09-1990	Duran et al.			
		4,914,586	04-03-1990	Swinehart et al.			
		4,995,078	02-19-1991	Monslow et al.			
		5,016,976	05-21-1991	Horner et al.			
		5,061,046	10-29-1991	Lee et al.			
		5,127,041	06-30-1992	O'Sullivan			
		5,133,079	07-21-1992	Ballantyne et al.			
		5,190,586	03-02-1993	Mizuguchi et al.			
		5,191,611	03-02-1993	Lang			
		5,262,875	11-16-1993	Mincer et al.			
		5,323,472	06-21-1994	Falk			
		5,341,374	08-23-1994	Lewen et al.			
		5,363,441	11-08-1994	Feiner et al.			
		5,386,581	01-31-1995	Suzuki et al.			
		5,390,316	02-14-1995	Cramer et al.			
		5,410,595	04-25-1995	Park et al.			
		5,416,618	05-16-1995	Juday			
		5,467,288	11-14-1995	Fasciano et al.			
		5,477,546	12-19-1995	Shibata et al.			
		5,517,652	05-14-1996	Miyamoto et al.			
		5,610,972	03-11-1997	Emery et al.			
		5,659,369	08-19-1997	Imaiida			
		5,719,786	02-17-1998	Nelson et al.			
		5,751,336	05-12-1998	Aggarwal et al.			

Examiner Signature	1-PA/3684384.1	Date Considered	
-----------------------	----------------	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>2</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449				<i>Complete If Known</i>	
				<b>Application Number</b>	10/722,051
				<b>Filing Date</b>	November 26, 2003
				<b>First Named Inventor</b>	Ludwig et al.
				<b>Art Unit</b>	2153
				<b>Examiner Name</b>	Strange, Aaron
<b>Sheet</b>	2	of	4	<b>Attorney Docket Number</b>	63330-5008-US

		5,777,663	07-07-1998	Shibata et al.			
		5,796,727	08-18-1998	Harrison et al.			
		5,815,233	09-29-1998	Morokawa et al.			
		5,191,611	03-02-1993	Lang			
		6,336,143	01-01-2002	Diedrich et al.			
		6,577,324	06-10-2003	Palmer et al.			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Class	Sub- class	Translation	
		Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>4</sup> (if known)					Yes	No
		EP 0376588	07-04-1990	AMERICAN TELEPHONE & TELEGRAPH (US)			X	
		EP 0410378	01-30-1991	HITACHI LTD (JP)			X	
		EP 0414222	02-27-1991	FUJITSU LTD (JP)			X	
		EP 0523618	01-20-1993	HITACHI LTD (JP)			X	
		EP 0561133	09-22-1993	NIPPON ELECTRIC CO (JP)			X	
		EP 0574138	12-15-1993	NCR INT INC (US)			X	
		JP 2 285 759 (Abstract in English)	11-26-1990	Nippon Telegraph & Telephone				X
		JP 62091045 (Abstract in English)	04-25-1987	NIPPON ELECTRIC CO				X
		JP 2089482 (Abstract in English)	03-29-1990	TOKYO SHIBAURA ELECTRIC CO				X
		JP 5014525 (Abstract in English)	01-22-1993	FUJITSU LTD				X
		JP 6086276 (Abstract in English)	03-25-1994	MITSUBISHI ELECTRIC CORP				X

<b>Examiner Signature</b>	1-PA/3684384.1	<b>Date Considered</b>	
-------------------------------	----------------	----------------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>2</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449				<i>Complete If Known</i>	
				<b>Application Number</b>	10/722,051
				<b>Filing Date</b>	November 26, 2003
				<b>First Named Inventor</b>	Ludwig et al.
				<b>Art Unit</b>	2153
				<b>Examiner Name</b>	Strange, Aaron
<b>Sheet</b>	3	of	4	<b>Attorney Docket Number</b>	63330-5008-US

	WO 9103116 (Abstract in English)	03-07-1991	FRANCE ETAT (FR)				X
	WO 9120149	12-26-1991	MOTOROLA INC (US)				X
	WO 9212583	07-23-1992	PICTURETEL CORP (US)				X
	WO 9307703	04-15-1993	BELL COMMUNICATIONS RES (US)			X	
	WO 9100664 (Abstract in English)	01-10-1991	Nippon Telegraph & Telephone				X

**OTHER NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		16.2 IPv4: The Internet Protocol Version 4
		Anderson, D. P. and Homsy, G., "A Continuous Media I/O Server and Its Synchronization Mechanism", October 1991, Computer 24, 10 (Oct. 1991), 51-57.
		Belville, Sharon, "Zephyr on Athena," Massachusetts Institute of Technology, ver. 3, Sept. 10, 1991.
		Boll, et al., "Suppression of Acoustic Noise in Speech Using Two Microphone Adaptive Noise Cancellation," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-28, No. 6, Dec. 1980.
		Cheng, et al., "A model for secure distributed computations in a heterogeneous environment," Proc. Of the Aerospace Computer Security Applications Conference, Orlando, Dec. 12-16, 1988, Washington, IEEE Comp., Soc. Press, US, vol. Conf. 4, p. 233-241.
		Chu, P.L., PictureTel Corporation, "Audio Compression and Echo Cancellation for Low Bit Rate Video Teleconferencing", Applications of Signal Process to Audio and Acoustics, Oct. 1991.
		Crowley et al., "MMConf: An Infrastructure for Building Shared Multimedia Applications," CSCW 90 Proceedings, Oct. 1990.
		DellaFera, et al. "The Zephyr Notification System," Proceedings of the USENIX Winter Conference, 1988.
		Edwards, W. Keith, "The Design and Implementation of the MONTAGE Multimedia Mail System," Communication Software, IEEE TRICOMM '91 Proceeding (Apr. 1991).
		Elrod, S. et al. "Liveboard: A Large Interactive Display Supporting Group meetings, Presentations and Remote Collaboration" CHI '92 (May 3-7, 1992), 1992 ACM at 599-607.
		Ensor, J.R., et al., "Control Issues in Multimedia Conferencing," IEEE, CH2955-3/91/0000-0133, 1991.
		Fitzpatrick, et al., "Smart Icons for Address Book Detailed View Entries," IBM Technical Disclosure Bulletin, Dec. 1992.

<b>Examiner Signature</b>	1-PA/3684384.1	<b>Date Considered</b>	
---------------------------	----------------	------------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>2</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449				<b>Complete If Known</b>	
				<b>Application Number</b>	10/722,051
				<b>Filing Date</b>	November 26, 2003
				<b>First Named Inventor</b>	Ludwig et al.
				<b>Art Unit</b>	2153
				<b>Examiner Name</b>	Strange, Aaron
<b>Sheet</b>	4	of	4	<b>Attorney Docket Number</b>	63330-5008-US

	FreeBSD Hypertext Man Pages: <a href="http://www.freebsd.org/cgi/man.cgi?query=rwho&amp;sektion=1&amp;apropos=0&amp;manpath=freebsd">http://www.freebsd.org/cgi/man.cgi?query=rwho&amp;sektion=1&amp;apropos=0&amp;manpath=freebsd</a> , June 6, 1993.
	FreeBSD Hypertext Man Pages: <a href="http://www.freebsd.org/cgi/man.cig?query=rwhod&amp;sektion=8&amp;apropos=0&amp;manpath=free...">http://www.freebsd.org/cgi/man.cig?query=rwhod&amp;sektion=8&amp;apropos=0&amp;manpath=free...</a> , December 11, 1993.
	Free BSD Hypertext Man Pages: Unix 4th Berkeley Release 1991 man pages for 'login,' 'utmp,' 'talk,' and 'who.' Online Internet: <a href="http://www.de.freebds.org">http://www.de.freebds.org</a> .
	Furner, et al., "An ISDN Multipoint Teleconferencing Environment", IEEE Journal on Selected Areas in Communications, Vol 9, May 1991
	Goldberg, "Active Mail: An Architecture for Groupware", Technical Report CS92-1?, The Weizmann Institute of Science, Oct. 1992.
	Harris, et al., "Intelligent Network Realization and Evolution: CCITT Capability Set 1 and Beyond," Proceedings of the International Switching Symposium. Yokohama, Oct. 25-30, 1992, Tokyo, IEICE, JP, vol. 2, Symp. 14, p. 127-131, XP000337709
	Harvey et al. "Some Aspects of Stereophony Applicable to Conference Use", Journal Audio Engineering Society, Jul. 1963 v.11, pp. 212-217.
	Hasebe, K. and Yamaguchi, K., "Continuous Media Network Server", April 1992, in: Proceedings of SPIE, Vol. 1662, pp. 291-298.
	Hill, G. "Improving Audio Quality: Echo Control in VideoConferencing", Teleconference, Mar.- Apr. 1991.v.10, n.2, pp 29-43.*
	Hoshi et al., "B-ISDN Multimedia Communication and Collaboration Platform Using Advanced Video Workstations to Support Cooperative Work," Dec. 1992.
	IBM TDB0992, "Public Nicknames in OS/2 Office Address Book," Sept. 1992.
	IBM TDB1192, "Public Search Lists in OS/2 Office Address Book," Nov. 1992.
	Ishii, et al., "Beyond Videophones: TeamWorkStation-2 for Narrowband ISDN", Proceedings of the 3rd European Conference on Computer-Supported Cooperative Work, Sept. 1993
	Ishii, H. "TeamWorkstation: Towards a Seamless Shared Workspace", CSCW 90 Proceedings, pp. 13-26, Oct. 1990.
	Ishii, H., et al. "Clearboard: A seamless Medium for Shared Drawing and Conversation with Eye Contact," CHI p92 (May 3-7, 1992), 1992 ACM at 525-532.
	Ishii, H., et al. "Toward an Open Shared Workspace: Computer and Video Fusion Approach of TeamWorkstation," Communication of the ACM, Vol. 34, No. 12, pp. 37-50. Dec. 1991.
	Kippenhan, et al., "Videoconferencing in the Energy Research Community," National HEPnet Management, Fermi National Accelerator Laboratory, August 1992.
	Koszarek, et al., "A Multi-User Document Review Tool," Multiuser Interfaces and Applications, 1990, p.207-214.
	Leffler, Samuel J. et. al., An Advanced 4.4BSD Interprocess Communication Tutorial, 1993 The Regents of the University of California.

<b>Examiner Signature</b>	1-PA/3684384.1	<b>Date Considered</b>	
-------------------------------	----------------	----------------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>2</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.